

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A latch device comprising:

a housing,

a movable member axially slidably disposed in the housing to move between a lock position and an unlock position relative to the housing and having front and back surfaces,

an urging member disposed in the housing for urging the movable member in a direction to project from the housing,

a switch disposed in the housing for turning on and off according to a position of the movable member in the housing, said switch having a first switch movable terminal attached to the movable member and a second switch fixed terminal attached to the housing so that when the movable member is in the lock position, the first switch movable terminal contacts the second switch fixed terminal and when the movable member is in the unlock position, the first switch movable terminal is spaced from the second switch fixed terminal, and

a push-push type lock mechanism disposed in the housing for locking and unlocking the movable member inside the housing, and including first lock members disposed on the front and back surfaces of the movable member symmetrically with respect to a center plane between the front and back surfaces of the movable member, and second lock members situated at sides of the housing facing the first lock members and locking and unlocking with the first lock members, said second lock members being integrally formed to have a C-shape with ends engaging the first lock members.

2. (currently amended) A latch device according to claim 1, wherein the movable member is locked in the lock position inside the housing by pushing the movable member into the housing against an urging force of the urging member, said locking mechanism releasing the movable member by pushing the movable member again

into the housing to thereby return the movable member by the urging force.

3. (currently amended) A latch device according to claim 1 8, wherein said first switch movable terminal includes first switch terminals disposed on the front and back surfaces of the movable member, and the second switch fixed terminal includes second switch terminals situated at the sides of the housing facing the first switch terminals.

4. (original) A latch according to claim 3, wherein said first switch terminals are electrically connected together.

5. (original) A latch device according to claim 4, wherein said first switch terminals are formed in a U-shape.

6. (original) A latch device according to claim 5, wherein each of said second switch terminals has an engaging portion engaging the housing and projects outwardly from the housing when the second switch terminal is fixed to the housing through the engaging portion.

7. (cancelled)

8. (currently amended) A latch device according to claim 7 comprising:

a housing,

a movable member axially slidably disposed in the housing to move between a lock position and an unlock position relative to the housing and having front and back surfaces,

an urging member disposed in the housing for urging the movable member in a direction to project from the housing,

a switch disposed in the housing for turning on and off according to a position of the movable member in the housing, said switch having a movable terminal attached to the movable member and a fixed terminal attached to the housing so that when the movable

member is in the lock position, the movable terminal contacts the fixed terminal and when the movable member is in the unlock position, the movable terminal is spaced from the fixed terminal, and

a push-push type lock mechanism disposed in the housing for locking and unlocking the movable member inside the housing, and including first lock members disposed on the front and back surfaces of the movable member symmetrically with respect to a center plane between the front and back surfaces of the movable member, and second lock members situated at sides of the housing facing the first lock members and locking and unlocking with the first lock members, said second lock members being integrally formed to have a C-shape with ends engaging the first lock members,

wherein said movable member is formed of a columnar portion on which a part of the switch is disposed, and a plate portion attached to one side of the columnar portion on which the first lock members are formed symmetrically.

9. (original) A latch device according to claim 8, wherein said movable member further includes engaging pieces pivotally attached to one end thereof, said engaging pieces holding a member therebetween when the engaging pieces are located inside the housing.

10. (currently amended) A latch device according to claim 7 comprising:

a housing,

a movable member axially slidably disposed in the housing to move between a lock position and an unlock position relative to the housing and having front and back surfaces,

an urging member disposed in the housing for urging the movable member in a direction to project from the housing,

a switch disposed in the housing for turning on and off according to a position of the movable member in the housing, said switch having a movable terminal attached to the movable member and a fixed terminal attached to the housing so that when the movable

member is in the lock position, the movable terminal contacts the fixed terminal and when the movable member is in the unlock position, the movable terminal is spaced from the fixed terminal, and

a push-push type lock mechanism disposed in the housing for locking and unlocking the movable member inside the housing, and including first lock members disposed on the front and back surfaces of the movable member symmetrically with respect to a center plane between the front and back surfaces of the movable member, and second lock members situated at sides of the housing facing the first lock members and locking and unlocking with the first lock members, said second lock members being integrally formed to have a C-shape with ends engaging the first lock members,

wherein said first lock members include cam portions with a heart shape formed on the front and back surfaces of the movable member symmetrically with respect to the center plane between the front and back surfaces of the movable member.

11. (previously presented) A latch device according to claim 10, wherein said second lock members have a middle portion between the ends, said middle portion being attached to the housing so that the ends forming the second lock members are rotatable for engaging the first lock members.